

Dual counterbalance with pressure reducer for brake release port

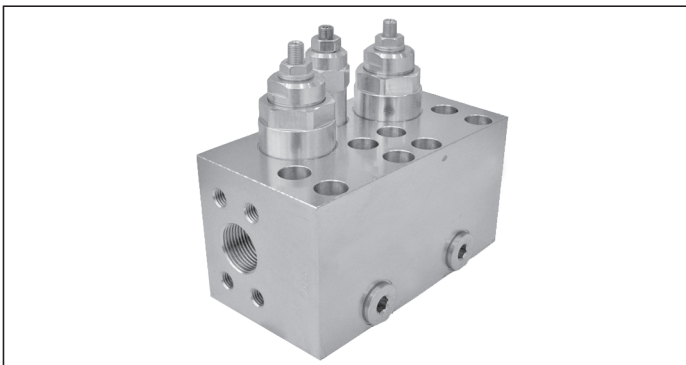
A-VBSN-DE-VF-20A-FM

08.46.32 - X - Y - Z

RE 18308-61

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Replaces: 04.2010



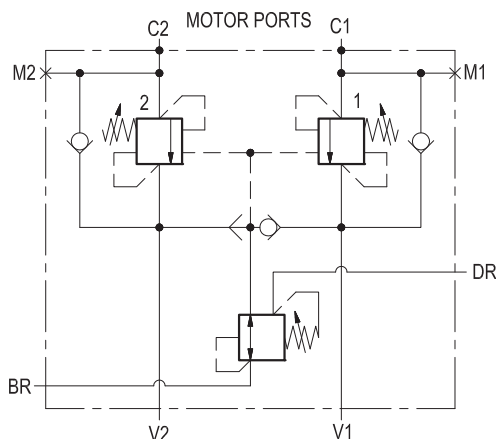
Technical data

Max. operating pressure	350 bar (5000 psi)
Max. flow	320 l/min. (85 gpm)
Flangeable on REXROTH motors A2FE80-90 series.	
Relief setting of valves 1 and 2: at least 1.3 times the highest expected load.	
Weight	13.2 kg (29.1 lbs)
Manifold material	Zinc plated steel
Fluid	Mineral oil (HL, HLP) according DIN 51524
Fluid temperature range	-30 °C to 100 (-22 to 212 °F)
Viscosity range	10 to 500 mm ² /s (cSt)
Recommended degree of fluid contamination	Class 19/17/14 according to ISO 4406
Other technical data	see data sheet 18350-50

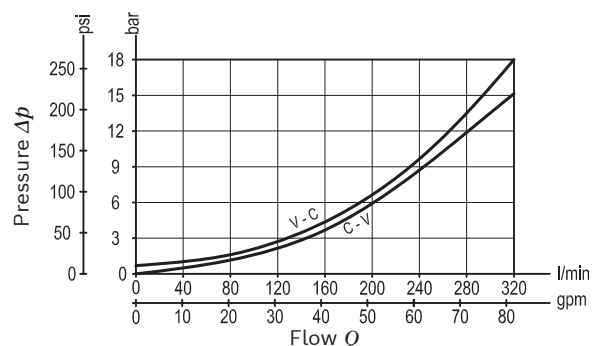
Note: for applications outside these parameters, please consult us.

Description

It provides static and dynamic motion control by regulating flow and pressure IN and OUT of the hydraulic motor at ports C1 and C2. It includes 2 motion control sections (ref. 1 - 2), each one composed by a check and a relief valve pilot assisted by pressure in the opposite line: the check allows free flow into the motor, then locks and prevents reverse movement. With pilot pressure applied at the line across, the pressure setting of the relief is reduced in proportion to the stated ratio until opening and allowing controlled reverse motion. With motor turning and without pilot pressure, the relief function builds up back-pressure at the motor port in order to stop the motion. Back-pressure at V1 or V2 is additive to the pressure settings in all functions. A shuttle valve directs either V1 or V2 line pressure to reducer cartridge (3) and provides "low/constant" pressure for brake releasing through port BR. The DR port must be connected to a low pressure tank line.



Characteristic curve



Ordering code

08.46.32	X	Y	Z
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Dual counterbalance with pressure reducer
for brake release port

Pilot ratio

03 4:1

Port sizes	V1 - V2	C1 - C2	DR - BR M1 - M2
73	1 SAE 6000	1 SAE 6000	G 1/4

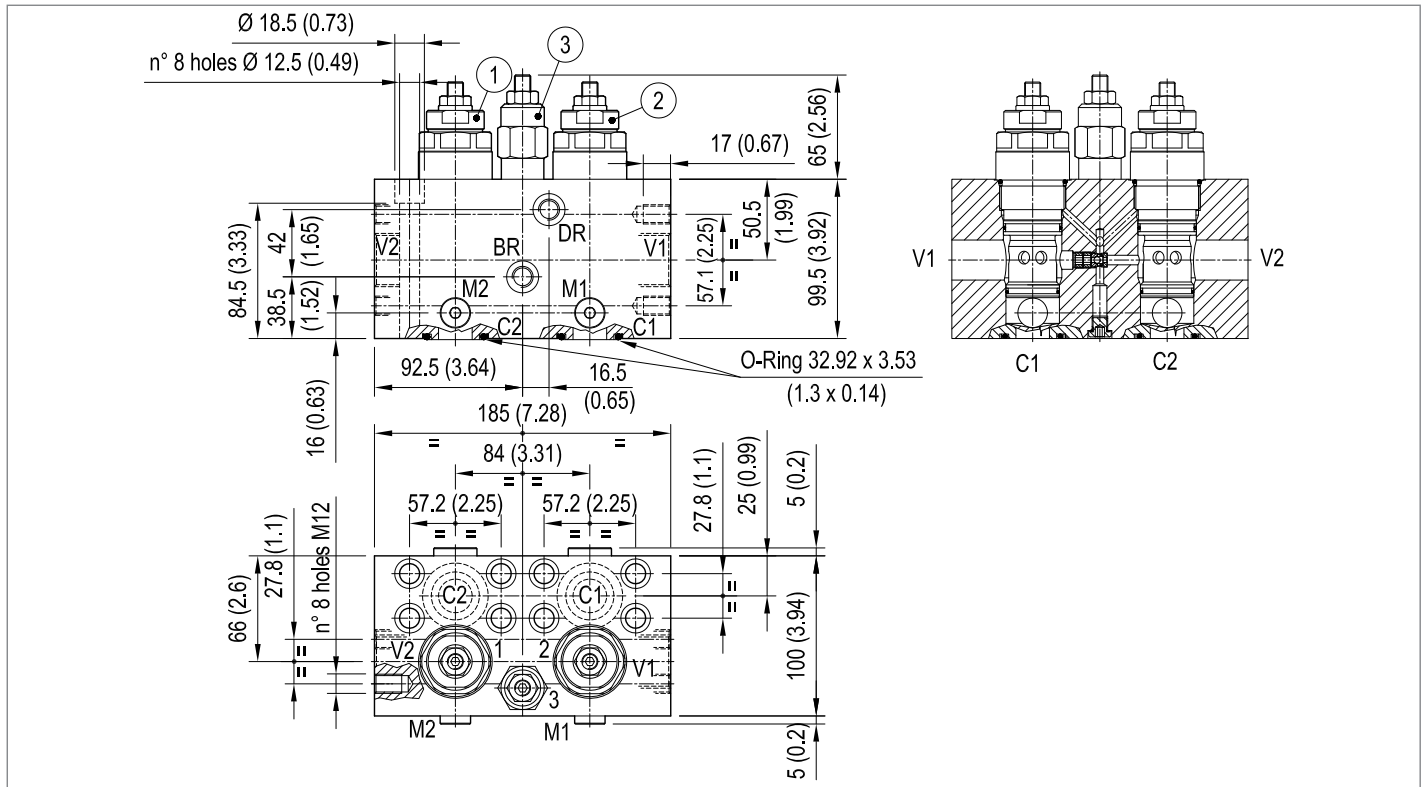
		SPRINGS		
		Adj. pressure range bar (psi)	Pres. increase bar/turn (psi/turn)	Std. setting Q=5 l/min. bar (psi)
35	Valve 1	140-350 (2000-5000)	108 (1566)	350 (5000)
	Valve 2	140-350 (2000-5000)	108 (1566)	350 (5000)
	Valve 3	10-50 (145-725)	7 (102)	35/40 (500/580)

Preferred types

Type	Material number
084632037335000	R930003631

Type	Material number

Dimensions



Bosch Rexroth Oil Control S.p.A.

Via Leonardo da Vinci 5
P.O. Box no. 5
41015 Nonantola - Modena, Italy
Tel. +39 059 887 611
Fax +39 059 547 848
compact-hydraulics-pib@boschrexroth.com
www.boschrexroth.com/compacthydraulics

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